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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/022,097

DATE: 06/26/2002
TIME: 09:44:15

Input Set : A:\GC714-seqlist.txt
Output Set: N:\CRF3\06262002\J022097.raw

4 <110> APPLICANT: Schellenberger, Volker
6 <120> TITLE OF INVENTION: Targeted Enzyme Prodrug Therapy
9 <130> FILE REFERENCE: GC714
11 <140> CURRENT APPLICATION NUMBER: US 10/022,097
C--> 12 <141> CURRENT FILING DATE: 2002-06-13
14 <150> PRIOR APPLICATION NUMBER: US 60/279,609
15 <151> PRIOR FILING DATE: 2001-03-28
17 <150> PRIOR APPLICATION NUMBER: US 60/255,774
18 <151> PRIOR FILING DATE: 2000-12-14
20 <160> NUMBER OF SEQ ID NOS: 43
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 361
26 <212> TYPE: PRT
27 <213> ORGANISM: Enterobacter cloacae
29 <400> SEQUENCE: 1
30 Thr Pro Val Ser Glu Lys Gln Leu Ala Glu Val Val Ala Asn Thr Ile
31 1 5 10 15
32 Thr Pro Leu Met Lys Ala Gln Ser Val Pro Gly Met Ala Val Ala Val
33 20 25 30
34 Ile Tyr Gln Gly Lys Pro His Tyr Tyr Thr Phe Gly Lys Ala Asp Ile
35 35 40 45
36 Ala Ala Asn Lys Pro Val Thr Pro Gln Thr Leu Phe Glu Leu Gly Ser
37 50 55 60
38 Ile Ser Lys Thr Phe Thr Gly Val Leu Gly Gly Asp Ala Ile Ala Arg
39 65 70 75 80
40 Gly Glu Ile Ser Leu Asp Asp Ala Val Thr Arg Tyr Trp Pro Gln Leu
41 85 90 95
42 Thr Gly Lys Gln Trp Gln Gly Ile Arg Met Leu Asp Leu Ala Thr Tyr
43 100 105 110
44 Thr Ala Gly Gly Leu Pro Leu Gln Val Pro Asp Glu Val Thr Asp Asn
45 115 120 125
46 Ala Ser Leu Leu Arg Phe Tyr Gln Asn Trp Gln Pro Gln Trp Lys Pro
47 130 135 140
48 Gly Thr Thr Arg Leu Tyr Ala Asn Ala Ser Ile Leu Gly Phe Gly Ala
49 145 150 155 160
50 Leu Ala Val Lys Pro Ser Gly Met Pro Tyr Glu Gln Ala Met Thr Thr
51 165 170 175
52 Arg Val Leu Lys Pro Leu Lys Leu Asp His Thr Trp Ile Asn Val Pro
53 180 185 190
54 Lys Ala Glu Glu Ala His Tyr Ala Trp Gly Tyr Arg Asp Gly Lys Ala
55 195 200 205
56 Val Arg Val Ser Pro Gly Met Leu Asp Ala Gln Ala Tyr Gly Val Lys

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57	210	215	220	
58	Thr Asn Val Gln Asp Met Ala Asn Trp Val Met Ala Asn Met Ala Pro			
59	225	230	235	240
60	Glu Asn Val Ala Asp Ala Ser Leu Lys Gln Gly Ile Ala Leu Ala Gln			
61	245	250	255	
62	Ser Arg Tyr Trp Arg Ile Gly Ser Met Tyr Gln Gly Leu Gly Trp Glu			
63	260	265	270	
64	Met Leu Asn Trp Pro Val Glu Ala Asn Thr Val Val Glu Gly Ser Asp			
65	275	280	285	
66	Ser Lys Val Ala Leu Ala Pro Leu Pro Val Ala Glu Val Asn Pro Pro			
67	290	295	300	
68	Ala Pro Pro Val Lys Ala Ser Trp Val His Lys Thr Gly Ser Thr Gly			
69	305	310	315	320
70	Gly Phe Gly Ser Tyr Val Ala Phe Ile Pro Glu Lys Gln Ile Gly Ile			
71	325	330	335	
72	Val Met Leu Ala Asn Thr Ser Tyr Pro Asn Pro Ala Arg Val Glu Ala			
73	340	345	350	
74	Ala Tyr His Ile Leu Glu Ala Leu Gln			
75	355	360		
77	<210> SEQ ID NO: 2			
78	<211> LENGTH: 8			
79	<212> TYPE: PRT			
80	<213> ORGANISM: Enterobacter cloacae			
82	<400> SEQUENCE: 2			
83	Arg Leu Tyr Ala Asn Ala Ser Ile			
84	1 5			
86	<210> SEQ ID NO: 3			
87	<211> LENGTH: 8			
88	<212> TYPE: PRT			
89	<213> ORGANISM: Enterobacter cloacae			
91	<400> SEQUENCE: 3			
92	Val His Lys Thr Gly Ser Thr Gly			
93	1 5			
95	<210> SEQ ID NO: 4			
96	<211> LENGTH: 50			
97	<212> TYPE: DNA			
98	<213> ORGANISM: Artificial Sequence			
100	<220> FEATURE:			
101	<223> OTHER INFORMATION: primer			
103	<400> SEQUENCE: 4			
104	ggggccggac atccaaagct tgtcgacagg aagcggaaaca cgttagaaagc		50	
106	<210> SEQ ID NO: 5			
107	<211> LENGTH: 50			
108	<212> TYPE: DNA			
109	<213> ORGANISM: Artificial Sequence			
111	<220> FEATURE:			
112	<223> OTHER INFORMATION: primer			
114	<400> SEQUENCE: 5			
115	aagctttgga tgtccgggcc cgaattcgtg taaaattgtt atccgctcac		50	

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Input Set : A:\GC714-seqlist.txt
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117 <210> SEQ ID NO: 6
118 <211> LENGTH: 88
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 125 <221> NAME/KEY: misc_feature
126 <222> LOCATION: (1)...(88)
127 <223> OTHER INFORMATION: n = A,T,C or G
W--> 129 <400> 6
W--> 130 ttccaggcat ggcgggtggcc gttatttata nsnnsnnnsnn snnsnnnsnn nnsaaaccgc 60
131 actattacac atttggcaag gccgacat 88
133 <210> SEQ ID NO: 7
134 <211> LENGTH: 88
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: synthetic oligonucleotide
W--> 141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (1)...(88)
143 <223> OTHER INFORMATION: n = A,T,C or G
W--> 145 <400> 7
W--> 146 cgcgatgtcg gccttgccaa atgtgtataa gtgcggttts nnsnnsnnsn nsnnsnnnsnn 60
W--> 147 snnataaaata acggccacccg ccatgcct 88
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 74
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: synthetic oligonucleotide
157 <400> SEQUENCE: 8
158 ctaggtcttc tactagtttta attgtcttag tcgttagctcc atctgcagtt gaagactctc 60
159 tactggcgaa tttt 74
161 <210> SEQ ID NO: 9
162 <211> LENGTH: 77
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: primer
W--> 169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (1)...(77)
171 <223> OTHER INFORMATION: n = A,T,C or G
W--> 173 <400> 9
W--> 174 cgcttgcgcc gttgcccgtg gcagaagtga atnnnsnnnsnn snnsnnnsnn nnsnnstcct 60
175 ggggtccataaa aactggc 77
177 <210> SEQ ID NO: 10
178 <211> LENGTH: 77
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence

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182 <220> FEATURE:
183 <223> OTHER INFORMATION: primer
W--> 185 <221> NAME/KEY: misc_feature
186 <222> LOCATION: (1)...(77)
187 <223> OTHER INFORMATION: n = A,T,C or G
W--> 189 <400> 10
W--> 190 tagagccagt tttatggacc caggasnnsn nsnnnsnnnsnn snnsnnsnna ttcacttctg 60
191 ccacgggcaa cggcgca 77
193 <210> SEQ ID NO: 11
194 <211> LENGTH: 95
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: primer
W--> 201 <221> NAME/KEY: misc_feature
202 <222> LOCATION: (1)...(95)
203 <223> OTHER INFORMATION: n = A,T,C or G
W--> 205 <400> 11
W--> 206 cgcttgcgcc gttgcccgtg gcagaagtga atnnsnnsnn snnsnnsnns nnsnnsnnsn 60
W--> 207 nsnnsnnsnn snnstcctgg gtccataaaa ctggc 95
209 <210> SEQ ID NO: 12
210 <211> LENGTH: 95
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: primer
W--> 217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (1)...(95)
219 <223> OTHER INFORMATION: n = A,T,C or G
W--> 221 <400> 12
W--> 222 tagagccagt tttatggacc caggasnnsn nsnnnsnnnsnn snnsnnsnns nnsnnsnnsn 60
W--> 223 nsnnsnnsnn cacttctgcc acggcaacg gcgca 95
225 <210> SEQ ID NO: 13
226 <211> LENGTH: 95
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: primer
W--> 233 <221> NAME/KEY: misc_feature
234 <222> LOCATION: (1)...(95)
235 <223> OTHER INFORMATION: n = A,T,C or G
W--> 237 <400> 13
W--> 238 cgcttgcgcc gttgcccgtg gcagaagtga atsngdhcsn gdhcsngdhc aagdhcsngd 60
W--> 239 hcsngdhcsn gdhctcctgg gtccataaaa ctggc 95
241 <210> SEQ ID NO: 14
242 <211> LENGTH: 28
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:

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Input Set : A:\GC714-seqlist.txt
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247 <223> OTHER INFORMATION: primer
249 <400> SEQUENCE: 14
250 attcaacttct gccacgggca acggcgca 28
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: primer
260 <400> SEQUENCE: 15
261 tagagccagt tttatggacc cagga 25
263 <210> SEQ ID NO: 16
264 <211> LENGTH: 84
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: primer
271 <400> SEQUENCE: 16
272 tggcccgccgg ccgctaattg tcttaggcgg atgccatgtg cagtactaga agacggcgta 60
273 tcgggtcaat gtatcagggt ctcg 84
275 <210> SEQ ID NO: 17
276 <211> LENGTH: 26
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: primer
283 <400> SEQUENCE: 17
284 agacaattag cggccgcggg ccatgt 26
286 <210> SEQ ID NO: 18
287 <211> LENGTH: 28
288 <212> TYPE: DNA
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: primer
294 <400> SEQUENCE: 18
295 cagccgagac cctgatacat tgacccga 28
297 <210> SEQ ID NO: 19
298 <211> LENGTH: 68
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: primer
W--> 305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (1)...(68)
307 <223> OTHER INFORMATION: n = A,T,C or G
W--> 309 <400> 19
W--> 310 tggcccccggaa gnnsnnsnns nnsnnsnnsnc ttaagcaggcatcgcgctg ggcgcgtcg 60
311 gctactgg 68
313 <210> SEQ ID NO: 20

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/022,097

DATE: 06/26/2002
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Input Set : A:\GC714-seqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52
Seq#:7; N Pos. 41,42,44,45,47,48,50,51,53,54,56,57,59,60,62,63
Seq#:9; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55
Seq#:10; N Pos. 27,28,30,31,33,34,36,37,39,40,42,43,45,46,48,49
Seq#:11; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55,57,58,60,61
Seq#:11; N Pos. 63,64,66,67,69,70,72,73
Seq#:12; N Pos. 27,28,30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55
Seq#:12; N Pos. 57,58,60,61,63,64,66,67
Seq#:13; N Pos. 34,40,46,58,64,70
Seq#:19; N Pos. 12,13,15,16,18,19,21,22,24,25,27,28
Seq#:20; N Pos. 45,46,48,49,51,52,54,55,57,58,60,61
Seq#:21; N Pos. 12,13,15,16,18,19,21,22,24,25,27,28,30,31,33,34,36,37,39,40
Seq#:22; N Pos. 45,46,48,49,51,52,54,55,57,58,60,61,63,64,66,67,69,70,72,73
Seq#:24; N Pos. 30,31,33,34,36,37,39,40,42,43,45,46,48,49,51,52
Seq#:26; N Pos. 33,34,36,37,39,40,42,43,45,46,48,49,51,52,54,55,57,58,60,61
Seq#:26; N Pos. 63,64,66,67,69,70,72,73
Seq#:29; Xaa Pos. 36
Seq#:30; Xaa Pos. 42
Seq#:31; Xaa Pos. 42
Seq#:32; Xaa Pos. 42
Seq#:33; Xaa Pos. 42
Seq#:34; Xaa Pos. 42
Seq#:35; Xaa Pos. 42
Seq#:36; Xaa Pos. 42
Seq#:37; Xaa Pos. 42
Seq#:38; Xaa Pos. 42
Seq#:39; Xaa Pos. 42
Seq#:40; Xaa Pos. 1,3,5,9,11,13
Seq#:41; N Pos. 34,40,46,58,64,70